BRUHAT BANGALORE MAHANAGARA PALIKE

BILL OF QUANTITIES (BOQ)

Name of work : DETAILED ESTIMATE FOR THE WORK OF CONSTRUCTION OF GYMNESIUM BUILDING NEAR GOVT. SCHOOL,GROUNDS, JAKKUR IN WARD NO 5,JAKKUR

Sl. No.	Approved Qty.	Description	Unit	Issued to Technical Manager , KRIDL	
				In Figures	In Words
1	51.70	KSRB2-1.2Earthwork in surface excavation ordinary soil for leveling and lowering the ground(other than foundation of buildings, culverts,road drains and trenches for pipe lines and cables)and removing the excav-ated stuff to a distance not exceeding 50m and lift upto 1.50m ecavated surface levelled and neatly dressed,disposed earth to be levelled after breaking of and neatly dressed as per specification. Specification NO KBS 2.1(b)/2.3.1 Page No-5 item No 2.1	Cum	169.56	Rupees One Hundred Sixty Nine and Fifty Six Paise Only
2	247.24	KSRB 2-2.1 : Earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, No. 5/ Item No. 2.4	Cum	305.64	Rupees Three Hundred Five and Sixty Four Paise Only
3	13.34	KSRB 2.8 : Providing and filling in foundation with granite/trap broken metal 100mm, and down size, with approved sand including had packing, ramming, watering, including cost of all materials and labour with all lead and lift, complete as per specifications. Specification. No. KBS, No. 6/ Item No. 2.15	Cu,M	2283.12	Rupees Two Thousand Two Hundred Eighty Three and Twelve Paise Only
4	38.06	KSRB 4-1.3: Providing and Laying in Position plain cement concrete of mix M7.5with OPC Cement @ 180Kgs with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57 cum machine mixed machine mixed, concrete laid in layers not exceeding 15 cms thick well compacted , in foundation and plinth including cost of all materials , labour HOM of machinery curing complete as per specifications. Speicifcation No KBS 4.1 , 4.2 Page No 12 Item No 4.33	Sqm	5256.36	Rupees Five Thousand Two Hundred Fifty Six and Thirty Six Paise Only
5	12.30	KSRB 5.2-2 Providing and constructing granite / trap / basalt rubble stone masonry in foundation with mud mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 Page No. 25/ Item No. 5.5	Cum	4359.96	Rupees Four Thousand Three Hundred Fifty Nine and Ninety Six Paise Only
6	8.09	KSRB 5.3-3 Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5-1.13 Page No. 26/ Item No. 5.9	Cum	5405.40	Rupees Five Thousand Four Hundred Five and Forty Paise Only

EXECUTIVE ENGINEER-4
KRIDL, BOQ DIVISION
BENGALURU-560 010

Signature of the contractor

Executive Enginee

	ved ty.	Description	Unit	Issued to Technical Manager , KRIDL	
				In Figures	In Words
	118.21	Filling Availble exacavation earth (exucluding rock) in sides of Foundations up to plinth in layer by ramming after watering with load up to 50 m and lift up to 1.5 m including cost of all labours complete as per Specification, Specification No KSB 2.9 (P-2.10)PWD SR 2016-17	Cum	137.16	Rupees One Hundred Thirty Seven and Sixteen Paise Only
8	19.29	KSRB 15.1.3 --do-- Providing ruled pointing to coursed stone masonry with cement bmortar 1:3, 20mm after raking joints to depth of 20mm nicely lining including cost of materials labour curing complete as per specification (p.no 109/i.no 15.3)		105.84	Rupees One Hundred Five and Eighty Four Paise Only
9	88.92	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2 Item No 4.28	Sqm	249.48	Rupees Two Hundred Forty Nine and Forty Eight Paise Only
10	3.20	KSRB 4-1.7 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregtes @ 0.56cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 Item No 4.7 Page 12	Sqm	5704.56	Rupees Five Thousand Seven Hundred Four and Fifty Six Paise Only
11	120.86	KSRB 4-6.9 :Providing and removing centering, shuttering, strutting, propping etc., for edges of slabs and breaks in floor including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 Page no 15 Item No 4.36	Sqm	732.24	Rupees Seven Hundred Thirty Two and Twenty Four Paise Only
12	17.73	KSRB 4-6.5 : Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, post and struts, square / rectangular/ polygon in plan including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 Page no 15 Item No 4.32	Sqm	395.28	Rupees Three Hundred Ninety Five and Twenty Eight Paise Only
13	73.96	KSRB 4-6.7 :Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 Page no 15. Item No 4.34	Sqm	276.48	Rupees Two Hundred Seventy Six and Forty Eight Paise Only
14	10.40	KSRB 4-6.10 :Providing and removing centering, shuttering, strutting, propping etc., for chajjas, corbels etc., including edges including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 Page No 15 Item No4.37	Sqm	291.60	Rupees Two Hundred Ninety One and Sixty Paise Only
15	100.48	KSRB 4.2.8: Providing and Laying in Position reinforced cement concrte of Nominal Mix 1:1:5:3 with 20 mm and down size graded granite metal machine mixed concrete laid in layers not excceding 15 cms thick vaibrated for RCC beams columns of all sizes in fundation plinth and superstrure ground floor level for columns, including cost of all materials labour HOM of Machinery curing. complete as per Specification. Specification No KBS 4.1.4.6 (P.No 13. Item No 4.17.)		6650.64	Rupees Six Thousand Six Hundred Fifty and Sixty Four Paise Only

Signature of the contractor

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISION
BENGALURU-560 010

Executive Enginee

	ved y.	Description	Unit	Issued to Technical Manager , KRIDL	
				In Figures	In Words
6	7.37	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - TMT bars Fe 500 Page No 16 Item No 4.46	Qntl	60534.00	Rupees Sixty Thousand Five Hundred Thirty Four Only
17	176.78	KSRB 5-14 : Providing and constructing precast concrete solid blocks with compressive strength not less than 3.5 Newton per sqmm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. Page No 24 , Item No 5.27	Sqm	1011.96	Rupees One Thousand Eleven and Ninety Six Paise Only
18	17.19	KSRB 5-15 : Providing and constructing non-load bearing wall with cement concrete solid blocks with compressive strength not less than 3.5 Newton per sqmm with cement mortar 1:4 (Jamb, closer blocks) with blocks of size 40x10x20cms. (lxbxh) conforming to I.S : 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. Page No 24 Item No 5.28	Sqm	773.28	Rupees Seven Hundred Seventy Three and Twenty Eight Paise Only
19	137.29	KSRB15-3.9 :Providing 18mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. Page No 97 Item No 15.17	Sqm	588.60	Rupees Five Hundred Eighty Eight and Sixty Paise Only
20	248.04	KSRB15-3.12 :Providing 20mm thick cement plaster in single coat with cement mortar 1:6, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. Page No 98. Item No 15.20	Sqm	224.64	Rupees Two Hundred Twenty Four and Sixty Four Paise Only
21	66.28	KSRB15-3-13 : Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. Page no 98 Item No 15.21	Sqm	208.44	Rupees Two Hundred Eight and Forty Four Paise Only
22	314.32	Providing Line rendering for plastaring to wall and celling including cost of materials labour curing complete as per Specifications Page no 99 Item No 51.33	Sqm	18.36	Rupees Eighteen and Thirty Six Paise Only
23	63.10	KSRB15-3.10 : Providing 20mm thick cement plaster in single coat with cement mortar 1:3, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. Page no98 Item No 15.18	Sqm	279.72	Rupees Two Hundred Seventy Nine and Seventy Two Paise Only

EXECUTIVE ENGINEER-4
KRIDL, DIVISION
BENGALURU-560 010

	oved ty.	Description	Unit	Issued to Technical Manager , KRIDL	
				In Figures	In Words
4	57.39	KSRB 14.10-1: Flooring with 25mm to 40mm thick polished tandur blue stone slabs using cement mortar 1:6, 25mm thick over existing cement concrete bed or top of roof laid to line and level and jointed with cement slurry mixed with pigment to match the shade of the slab, , including cost of materials, labour, curing, polishing complete as per specifications. Specification No. KBS Page no 89 Item No 14.15	Sqm	1210.68	Rupees One Thousand Two Hundred Ten and Sixty Eight Paise Only
25	6.79	KSRB 14.14-5: Providing Ceramic tiles of approved make,shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment , including cost of materials, labour, curing, complete as per specifications. - for Ceramic Tiles of size 30x30cms 6mm thick Page No 93 Item No 14.36.2	Sqm	1270.08	Rupees One Thousand Two Hundred Seventy and Eight Paise Only
26	34.89	KSRB 14-17.1 : Providing skirting, dado, rises of steps with white glazed tiles 6mm thick on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. Specification No.KBS 14.16, 14.17 Page No 94. Item No 14.41	Sqm	1157.76	Rupees One Thousand One Hundred Fifty Seven and Seventy Six Paise Only
27	6.00	KSRB 7.17 : Providing, fabricating, assembling and fixing in position aluminium doors using following aluminium mat finish or glossy finish, outer frame plain section 101.6x44.45mm thickness 3.18mm, section weight 2.404 kg/m, door shutters vertical section 44.62x44.45mm thickness 3.18mm, section weight 1.505kg/m, top section 47.62x44.45mm thickness 3.00mm, section weight 1.426kg/m bottom section 114.3x44.45 thickness 3.18mm, section weight 2.646kg/m, door central section 49.91x44.45mm thickness 3.00mm, section weight 1.495 kg/m glazing clips 19x17.3x11mm thickness 0.9mm section weight 0.124kg/m; aluminium sections cut to length joint metred cornersgrinded, the shutters pivoted opening arrangement with heavy duty aluminium alloy automatic door closures floor mounted, providing and fixing standard approved accessories, such as aluminium handle for full width or length, tower bolts, lock, pivots: P.V.C. or rubber gasket with 5.5m. thick plain glass for top and bottom panel; aluminium sections treated for removal of any rust and prevention of further rust formation, and coated with greasy materials for non-adherance of mortars or	cum	6718.68	Rupees Six Thousand Seven Hundred Eighteen and Sixty Eight Paise Only
28	0.05	KSRB 9.4-3 : Providing Mathi / Nandi wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, HOM of machineries complete as per specifications. Specification No. KBS 9.33 Page No 45 Item No 9.12	cum	87255.36	Rupees Eighty Seven Thousand Two Hundred Fifty Five and Thirty Six Paise Only

EXECUTIVE ENGINEER-4
KRIDL, BDMP DIVISION
BENGALURU-560 010

Signature of the contractor

Executive Enginee

oved ity.		Description	Unit	Issued to Technical Manager , KRIDL	
				In Figures	In Words
.9	1.00	KSRB 9-27.1 : Fixing of door frame in an existing opening including embeeding frame in floor and walls after cutting masonry for holdfasts for embedding holdfast in cement concrete 1:3:6 of 20mm and down size granite metal painting two coats of coal tar to sides of frame, making good the damages to walls and floor as required and disposal of the debries with lead upto 50 m. including cost of materials, labour charges, complete as per specifications. Page no 51 Item No 9.80	Nos	1138.32	Rupees One Thousand One Hundred Thirty Eight and Thirty Two Paise Only
30	1.89	SOLID PANEL PVC DOOR SHUTTER Providing & fixing 30mm thick factory made rigid foam Panelled Door Shutters made from M.S. tube of 19 gauge thickness, size 19x19mm fro styles and 15x15mm for top & bottom rails, covered with heat moulded PVC channel of 5mm thick sheet & 30 x 50mm wide to form styles & 5mm thick & 75mm wide PVC Sheets for top rail, lock rail & bottom rail on either side & 5mm thick 20mm wide PVC sheet as gap insert for top rail & bottom rail, Panelling of 5mm thick PVC sheet fitted in the M.S. Frame, Sealed to the styles & rails with 5x30mm PVC sheet beading on either side & joined together with solvent cement adhesive etc., Complete as per manufacturers specification & direction of Engineer-in-charge fixed to frames with 3 nos of 75 m.m Aluminium hinges. Page No 52 Item No 9.83	Sqm	3448.44	Rupees Three Thousand Four Hundred Forty Eight and Forty Four Paise Only
31	5.04	SOLID PANEL PVC DOOR SHUTTER Providing & fixing 30mm thick factory made rigid foam Panelled Door Shutters made from M.S. tube of 19 gauge thickness, size 19x19mm fro styles and 15x15mm for top & bottom rails, covered with heat moulded PVC channel of 5mm thick sheet & 30 x 50mm wide to form styles & 5mm thick & 75mm wide PVC Sheets for top rail, lock rail & bottom rail on either side & 5mm thick 20mm wide PVC sheet as gap insert for top rail & bottom rail, Panelling of 5mm thick PVC sheet fitted in the M.S. Frame, Sealed to the styles & rails with 5x30mm PVC sheet beading on either side & joined together with solvent cement adhesive etc., Complete as per manufacturers specification & direction of Engineer-in-charge fixed to frames with 3 nos of 75 m.m Aluminium hinges. Page No 52 Item No 9.83	Sqm	3448.44	Rupees Three Thousand Four Hundred Forty Eight and Forty Four Paise Only

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISION
BENGALURU-560 010

Signature of the contractor

Executive Enginee

	oved ty.	Description	Unit	Issued to Technical Manager , KRIDL	
				In Figures	In Words
32	22.36	KSRB 7.10 : Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using double track window frame section of size 61.85x31.75mm. with 1.2mm thick, bottom section weight 0.695 kg/m, sides and top sections 1.3 mm. thick weight 0.659 kg/m; and shutter comprising top and bottom section of size 40mmx18mm, 1.25mm thick 0.417 kg./m; shutter outer side 40mmx18mm, 1.25mm.thick weight 0.417 kg/m, shutter interlock section 40mmx26.7mm, 1.1mm thick, weight 0.469 kg/m. the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; and providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading aluminium sections including cutting to required length, joints mitred subdividing the frame tenonned and rivetted in the assembled frame stiffened with end clips at corners angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be with necessary steel screws, raul plugs, or teak wood gatties including cutting masonry or concrete and making good the	cum	4123.44	Rupees Four Thousand One Hundred Twenty Three and Forty Four Paise Only
33	427.14	KSRB 7.9 : Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications. Specification No. KBS 7.12 Page no 31 Item No 7.9	cum	84.24	Rupees Eighty Four and Twenty Four Paise Only
34	5.06	KSRB 7.5 : Providing and fixing pull and push type rolling shutters of approved make out of 18 guage, 75mm wide cold rolled steel laths of convex corrugation, with side guides and bottom rail, with interlocking arrangements for steel laths by means of alternate clips, suspension shaft with High tension coil type springs two numbers, mounted on specially designed pipe shaft, with bracket plates, guide channels, ball bearing arrangements, for inside & outside locking with push & pull operations complete including pulling hooks, 4Nos. handles with all fittings and accessories, painted with a coat of red lead paint (without top cover) cost of materials, labour, HOM of machinery complete as per specifications. Shutter size 3mx2.8 m. Specification No. KBS 7.10 / 7.12 Page no 30 Item no 7.5	cum	3090.96	Rupees Three Thousand Ninety and Ninety Six Paise Only
35	137.29	KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. - with primer Page no 102 Item No 15.53.2	cum	90.72	Rupees Ninety and Seventy Two Paise Only

EXECUTIVE ENGINEER-4
RIVER DIVISION
BENGALURU-560 010

Signature of the contractor

Executive Engineer

	oved Qty.	Description	Unit	Issued to Technical Manager , KRIDL	
				In Figures	In Words
36	296.98	KSRB 15-15.3 : Providing and applying painting in one coat with plastic emulsion paint of approved brand and manufacture on wall surface to give an even approved shade after throughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. Page no 101 Item No 15.51.2	cum	97.20	Rupees Ninety Seven and Twenty Paise Only
37	4.91	KSRB 15-17.6 : Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications. Page no 103 Item No 15.58 and 15.60.1	cum	90.72	Rupees Ninety and Seventy Two Paise Only
38	11.02	KSRB 5.1-2 : Providing and constructing granite / trap / basalt rubble stone masonry in foundation with cement mortar 1:8 (uncoursed), bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.12 Page no 22 Item no 5.2	cum	3317.76	Rupees Three Thousand Three Hundred Seventeen and Seventy Six Paise Only
39	4.32	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. - 10 cms thick Page no 24 Item No 5.31.3	cum	841.32	Rupees Eight Hundred Forty One and Thirty Two Paise Only
40	36.00	KSRB 8.6-5 : Providing and fixing on wall surface 2.5 kg / sq.cm H.D.P.E. rain down water pipes 90 mm outer dia approved make and brand with necessary specials like shoes, bends and offsets fixed with iron clamps, wall plugs, screws, including cost of materials, labour, curing complete as per specifications. Page no 42 Item No 8.16	cum	429.84	Rupees Four Hundred Twenty Nine and Eighty Four Paise Only

1. The work should be executed as per the specification and standard specified by the PWD & Other specifications of the
2. The work should be carried out as per the directions and instructions of the concerned Engineer
3. The Contractor should maintain the quality of work as per the standard specifications.

24/03

Executive Engineer (Byatarayanapura)
Bruhath Bangalore Mahanagara Palike

I am prepared to take up the above work at the rates quoted by me in the Schedule 'B'.

CONTRACTOR

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISION
BENGALURU-560 010